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Title

Testing software design modeled by finite-state machines.

Author(s)

Chow-T-S.

Author affiliation

Bell Labs, Naperville, IL, USA.

Source

IEEE-Transactions-on-Software-Engineering (USA), vol.SE-4, no.3, p.178-87, May 1978.

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ISSN

ISSN: 0098-5589.

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Language

EN.

Publication type

J Journal Paper.

Treatment codes

T Theoretical or Mathematical.

Abstract

Proposes a method of **testing** the correctness of control structures that can be **modeled** by a finite state machine. Test results derived from the **design** are evaluated against the specification. No 'executable' prototype is required. The method is based on a result in automata theory and can be applied to **software testing**. Its error detecting capability is compared with that of other approaches. Application experience is summarized. (17 refs).

Descriptors

finite-automata; programming-theory.

Keywords

software design; correctness; control structures; finite state machine; specification; automata theory; software testing; error detecting capability.

Classification codes

C4240 (Programming and algorithm theory).

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